

INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/KR2005/000140

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04L 12/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04L, H04Q, H04M, G06F

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean Patents and applications for Inventions since 1975
 Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 2003-21536 (SAMSUNG Co Ltd) 15 MAR 2003 see the whole documents	1
Y	US 6,483,563 B1 (NEC Corp.) 20 AUG 2002 see the whole documents	1.
A	WO 02/77830 (MITSUBISHI) 1 JUL 2004 see the whole documents	1
A	US 6577643 (Lucent Technology) 10 JUN 2003 see the whole documents	1
A	US 6404861 (e-Cell Technology) 11 JUN 2002 see the whole documents	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

25 FEBRUARY 2005 (25.02.2005)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/000140

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2003-21536	15 MAR 2003	NONE	
US 6,483,563 B1	20 AUG 2002	JP 12-163344	16 JUN 2000
		CN 1257365 A	21 JUN 2000
WO 02/77830	1 JUL 2004	US 2004-128114 A1	1 JUL 2004
		JP 14290403	4 OCT 2002
		EP 1372078 A1	17 DEC 2003
US 6577643	10 JUN 2003	US 6512754 B1	28 JAN 2003
		US 6377982 B1	23 APR 2002
		US 2002-89958 A1	11 JUL 2002
		JP 11289353	19 OCT 1999
		EP 0918417 A2	19 MAY 1999
US 6404861	11 JUN 2002	WO 200131969 A1	03 MAY 2001
		US 6,477,595 B1	05 NOV 2002
		TW 516332 B	01 JAN 2003